

## ABSTRACT OF THE DISCLOSURE

Conductive tracks disposed on an electrically non-conductive support material by depositing a metallized layer on metal nuclei produced by using electromagnetic radiation to break up electrically non-conductive metal compounds dispersed in the support material, and a method for producing them. The electrically non-conductive metal compounds are insoluble spinel-based inorganic oxides which are thermally stable and are stable in acidic or alkaline metallization baths, and which are higher oxides with a spinel structure, and which remain unchanged in non-irradiated areas. The spinel-based inorganic oxides used are heat resistant and remain stable after being subjected to soldering temperatures. The conductor tracks are reliably and easily produced and adhere strongly to the support.